



**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Masahiro YATAKE

Group Art Unit: 1714

Application No. 09/909,417

Examiner: Callie E. Shosho

Filed: July 19, 2001

For: SACCHARIDE-ALKYLENEOXY DERIVATIVE AND INK

DECLARATION UNDER 37 CFR \$1.132

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Masahiro Yatake, do declare and state that:

I graduated from Science and Technology of  
Nagasaki University, Department of Materials Science and  
Engineering, Superstructural Materials Engineering  
Laboratory in March of 1983.

I graduated from Graduate School of Science and  
Technology of Nagasaki University, Course of Materials  
Science and Engineering, Superstructural Materials  
Engineering Laboratory, receiving a Master's Degree in  
Polymer Material Engineering in March of 1985.

I was employed by Seiko Epson Corporation in  
April of 1985, and since that time to March of 1993, I had

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been principally engaged in development relating to magnet optical media in said company.

After that, I have been principally engaged in development relating to ink jet inks in said company.

I am the sole inventor of the invention described and claimed in the above-identified application and am familiar with the Office Action dated August 22, 2006 issued therein.

The following comparative experimentation was conducted by me or under my supervision to demonstrate the unexpected superiority of the claimed invention.

EXPERIMENTATION

Ink compositions were prepared in accordance with the formulations shown in Table A below.

Table A

	Invention Example	Comparative Example (Yui)
Carbon Black *1)	5	5
Glycerol	10	12
Sorbitol-Ethyleneoxy Derivative *2)	10	0
Diglycerol-PO17 Adduct *3)	0	7
Thiodiethanol *4)	0	6
Triethylene Glycol Monobutyl Ether	5.5	0
1,2-Hexanediol	1.0	0
Ion-Exchanged Water	balance	balance

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**Notes:**

- \*1) Water-soluble pigment 1 used in Example 7 of the present application
- \*2) Compound used in Example 6 of the present application
- \*3) Compound used in Example 2 of Yui et al.
- \*4) Compound used in Example 2 of Yui et al.

Using each of the thus obtained ink compositions, printing was carried out in the same manner as in the Examples of the present application. The resulting printed sheet obtained with the ink of the Invention Example and that obtained with the ink of the Comparative Example are attached hereto as Exhibit A-1 and Exhibit A-2, respectively. The printed sheet obtained with the ink of the Comparative Example (i.e., Exhibit A-2) shows less color development and white (blank) streaks generated in solid-printing portions and large characters.

In addition, closeup pictures of the letter "機" in Exhibits A-1 and A-2 were taken and they are both shown in Exhibit B attached hereto for comparison. As can be seen therefrom, a distinct image is obtained in the Invention Example, whereas the image obtained in the Comparative Example is thinned and blurred.

I declare further that all statements made herein of my own knowledge are true and that all statements made

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on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: November 28, 2006

<u>Masahiro</u>	<u>Yatake</u>
Masahiro	Yatake

**Attachments:**

Exhibits A-1 and A-2  
Exhibit B

# News Letter

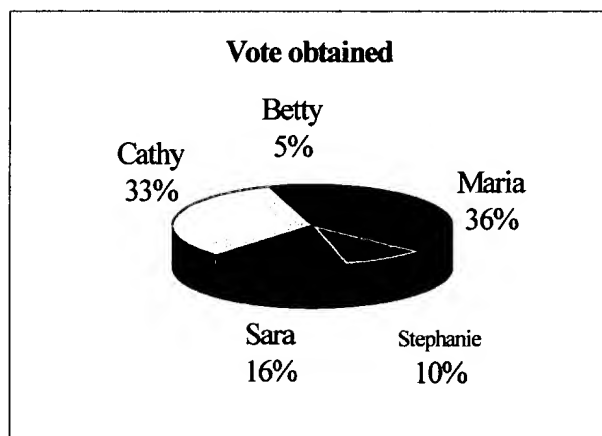
SEIKO EPSON CORPORATION

## Employ News

Congratulation to the **Arbor Footwear** soccer team! They took **first place** in the recent city competition. **Special thanks** to team captain **Bruno Martin**(manufacturing), who told a TV reporter, "Great shoes are part of a sound strategy".

## 1. Writing contest winner

**Maria Selvat** took second place in the city's humorous essay contest. Co-workers encouraged her to write down the stories she tells on break time. Her winning story, "I was'nt born to ski," was their all-time favorite, told while they were singing the sash on her leg.

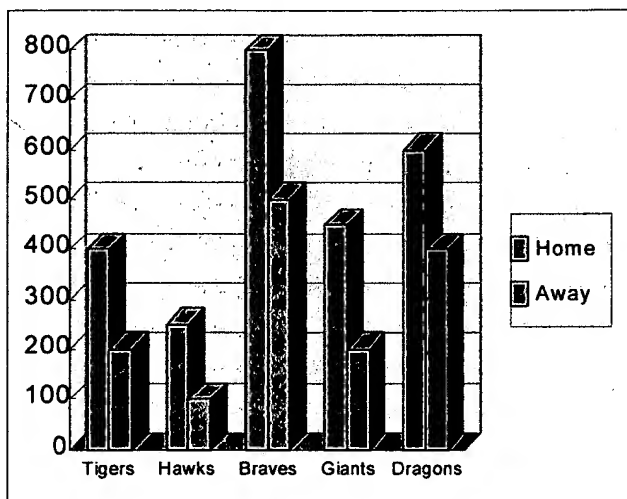


## 2. Wedding Bells

Best wishes to **Thomas Bendel**(women's dress shoe division) and **Isabelle Mendel** (administration), who married last Friday night. For fun, co-workers pre-pared a hyphenated name plate for Isabelle's office door. It read: "Dr. Isabelle Mendel-Bendel."

M/C = A650, media: Xerox 4200  
 モード: Speed, ファイン  
 ink = 本発明

## Inventory List

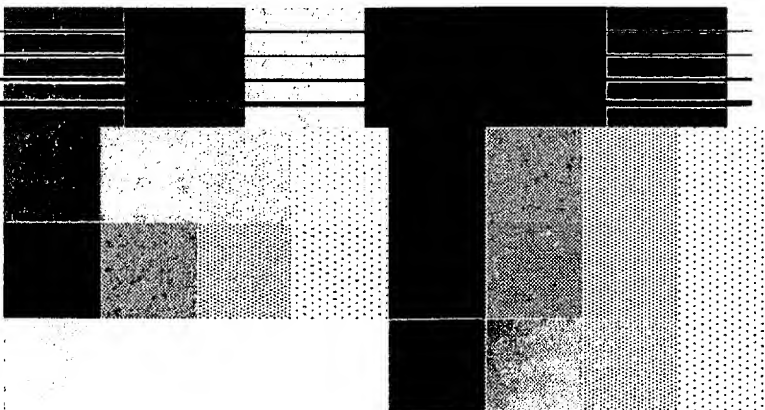


## ■「エプソン マツハジェットカラープリンタ カラリオ MJ-810C/510C」

セイコーエプソン株式会社(社長:安川英昭、本社:長野県諏訪市大和 3-3-5、電話:0266-52-3131(代))は、パーソナル・ホームユース向けのマツハジェットカラープリンタとして高画質化・高速化をさらにすすめた新商品2機種「エプソン マツハジェットカラープリンタ カラリオ MJ-810C/510C」をエプソン販売株式会社(社長:木村登志男、本社:東京都新宿区西新宿 2-4-1 新宿 NSビル、電話:03-5321-4111(代))を通じ、6月1日より全国一斉に発売いたします。

当社では、成長の著しいフルカラーグラフィックス市場において、「カラーイメージングのエプソン」として高画質の入出力機器の提供と、使い勝手の向上や用途提案をおこない、フルカラーグラフィックス環境におけるソリューションの普及をリードしてきました。

今回の新商品2機種「エプソン マツハジェットカラープリンタ カラリオ MJ-810C/510C」は、昨年5月に発売以来、その高画質と「彩ちゃんの CD-ROM マニュアル」による使い勝手の簡便さにより、市場で高い評価を頂いている「エプソン マツハジェットカラープリンタ カラリオ MJ-800C/500C」の後継機種です。



# News Letter

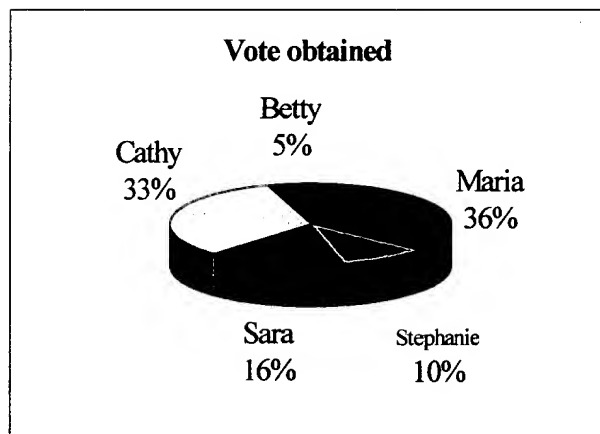
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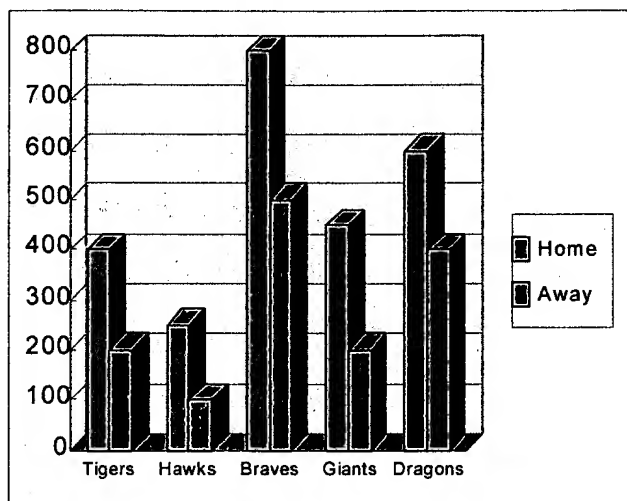


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 モト: Speed ファイン  
 ink = 比較例②

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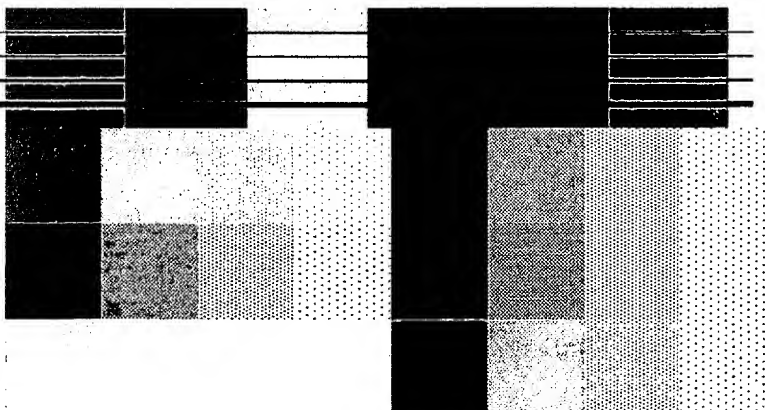


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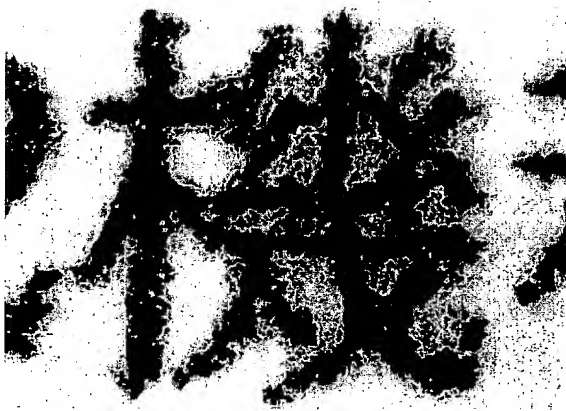
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## Exhibit B

### Invention Example



### Comparative Example (Yui)

